



Application/Control Number: 10/716,064 Art Unit: 3672

Inventor: Michael Gondouin Examiner: Daniel P. Stephenson

Filing Date: 11/17/2003

TITLE: "DOWNHOLE FLOW CONTROL APPARATUS, SUPER-INSULATED TUBULARS AND SURFACE TOOLS FOR PRODUCING HEAVY-OIL BY STEAM INJECTION METHODS FROM MULTILATERAL WELLS LOCATED IN COLD ENVIRONMENTS"

N.B. The Title of this Application covers both an "Apparatus" and "Methods" which do build-upon the "Process" Patent No.5,085,275, by the same inventor. The thermal insulation provided by either the "thixotropic mud" shown on the Prior Art FIG.1B or by the "Magnesium Silicate foam" insulation mentioned on Page 6, line 52 of the "275" Specification. Even their combination could NOT compete with the "super-insulation" of the present Application.

The "275" Patent considered only two Branch-wells, while the present Application is aimed at a Multilateral well equipped with 4 to 8 Branch-wells, in order to establish a near-continuous use of the Boilers.

The combination of No.5,085,275 with the "Ellis Patent", however, would NOT produce the required "complex" Apparatus nor the "specific" Methods of the present Application, because the "Ellis Patent" does NOT address any of the required heat transfers.